Notice of Allowability	Application No.	Applicant(s)
	10/655,423	JUNG ET AL.
	Examiner	Art Unit
	Binh X. Tran	1765
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>11-07-2005</u> .		•
2. The allowed claim(s) is/are 1-14.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No	· ·
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of ENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER's reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF ion is deficient.
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin ne header according to 37 CFR 1.121(d	gs in the front (not the back) of ).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	_	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ∐ Interview Summary ( Paper No./Mail Date	(PTO-413), e
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	8), 7 🗌 Examiner's Amendm	ent/Comment
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>		nt of Reasons for Allowance
• •	9. Other	7.
	NADI	NE G. NORTON
	SUPERVISOR	RY PATENT EXAMINER

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## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 1-14 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The cited prior arts fail to disclose or suggest the second etching process to the second trench, so that a third trench having a second depth deeper than the first depth is formed in the second region, wherein the insulating layer has a first thickness under the third trench and a second thickness under at least one first trench, the first thickness of being less than the second thickness. The closest prior art (Parikh) teaches to extend the via hole 340 from the signal line trench to the substrate.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh X. Tran whose telephone number is (571) 272-1469. The examiner can normally be reached on Monday-Thursday and every other Friday.

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5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Binh X. Tran

NADINE G. NORTON SUPERVISORY PATENT EXAMINER

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